PATENT COOPERATION TREATY

CONFIRMATION

From the:

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT NOTIFICATION OF TRANSMITTAL OF Lawrence Y-D Ho & Ass. Pte-Ltd ಲ್ಲಿ ಆದರಾಬರು ಶಾಗಾರಾಗಾಗಿ INTERNATIONAL PRELIMINARY EXAMINATION 30 Bideford Road REPORT #07-01 Thongsia Building 0 1 JUL 2003 Singapore 229922 (PCT Rule 71.1) Date of mailing 2 3 JUN 2003 day/month/year Applicant's or agent's file reference IMPORTANT NOTIFICATION 1138.P005PCT International Application No. International Filing Date **Priority Date** PCT/SG03/00010 20 January 2003 27 February 2002 **Applicant** NANYANG POLYTECHNIC et al

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translations to those Offices.

4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide

Name and mailing address of the IPEA/AU

AUSTRALIAN PATENT OFFICE
PO BOX 200, WODEN ACT 2606, AUSTRALIA
E-mail address: pct@ipaustralia.gov.au
Facsimile No. (02) 6285 3929

P. THONG
Telephone No. (02) 6283 2128

PATENT COOPERATION TREATY DCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 1138.P005PCT	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).				
International Application No.	International Filing Da (day/month/year)	te	Priority Date (day/month/year)			
PCT/SG03/00010	20 January 2003		27 February 2002			
International Patent Classification (IPC) or national classification and IPC						
Int. Cl. 7 G06F 17/60, G06N 3/12						
Applicant	_					
NANYANG POLYTECHNIC et	al					
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and						
is transmitted to the applicant according to Article 36.						
2. This REPORT consists of a total of 3	sheets, including this c	over sheet.				
This report is also accompanied t	by ANNEXES, i.e., sheet	ts of the description,	claims and/or drawings which have been			
amended and are the basis for thi 70.16 and Section 607 of the Ad	is report and/or sheets comministrative Instructions	ntaining rectification under the PCT).	s made before this Authority (see Rule			
70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total of sheet(s).						
3. This report contains indications relating to the following items:						
I X Basis of the report						
II Priority	II Priority					
III Non-establishment of op	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
IV Lack of unity of invention						
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents cited						
VII Certain defects in the int	VII Certain defects in the international application					
VIII Certain observations on the international application						
Date of submission of the demand Date of completion of the report						
6 June 2003		Date of completion of the report 18 June 2003				
Name and mailing address of the IPEA/AU		Authorized Officer				
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA						
E-mail address: pct@ipaustralia.gov.au						
Facsimile No. (02) 6285 3929	1	Telephone No. (02) 6283 2128				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SG03/00010

I.	Basis of the report					
1.	With regard to the elements of the international application:*					
	x the international application as originally filed.					
	the description, pages, as originally filed,					
	pages, filed with the demand,					
	pages, received on with the letter of					
	the claims, pages, as originally filed,					
	pages, as amended (together with any statement) under Article 19,					
	pages, filed with the demand,					
	pages, received on with the letter of					
	the drawings, pages, as originally filed,					
	pages, filed with the demand,					
	pages, received on with the letter of					
	the sequence listing part of the description:					
	pages, as originally filed					
	pages, filed with the demand					
	pages, received on with the letter of					
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in					
	which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is:					
	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).					
	the language of publication of the international application (under Rule 48.3(b)).					
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2					
	and/or 55.3).					
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international					
	preliminary examination was carried out on the basis of the sequence listing:					
	contained in the international application in written form.					
	filed together with the international application in computer readable form.					
	furnished subsequently to this Authority in written form.					
	furnished subsequently to this Authority in computer readable form.					
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished					
4.	The amendments have resulted in the cancellation of:					
	the description, pages					
	the claims, Nos.					
	the drawings, sheets/fig.					
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**					
*	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this					
	report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).					
**	Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SG03/00010

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty (N)	Claims 1-17	YES
	Claims	NO
Inventive step (IS)	Claims 1-17	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-17	YES
	Claims	NO

2. Citations and explanations (Rule 70.7)

D1 = AICKELIN, U., DOWSLAND, K., Exploiting problem structure in a genetic algorithm approach to a nurse rostering problem. Journal of Scheduling Volume 3 Issue 3 (May/June 2000) pp 139-153

D2 = US 5319781

D3 = US 5848403

D4 = US 5897629

None of the citations discloses the subject matter of the claims. Therefore the subject matter of the claims is new and meets the requirements of Article 33(2) PCT with regard to the requirement for novelty. The subject matter of the claims is not obvious and meets the requirements of Article 33(3) PCT with regard to the requirement for inventive step. The subject matter of the claims is industrially applicable.